

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P238817

Luminaire Tested: **22ENA-LD2-34-UNV-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P238817  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1706-118-11)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22ENA-LD2-34-UNV-L830-CD1-U  
Description: METALUX ENCOUNTER 2X2 LED TROFFER  
AIR-VENTED OPTION  
Light Source: (168)3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3282.9 lumens  
Efficiency: N/A  
Efficacy: 115.2 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.29 / 1.39  
Luminous Opening: Rectangular (W 1.67' x L: 1.83' x H: 0')  
CIE Type: Direct

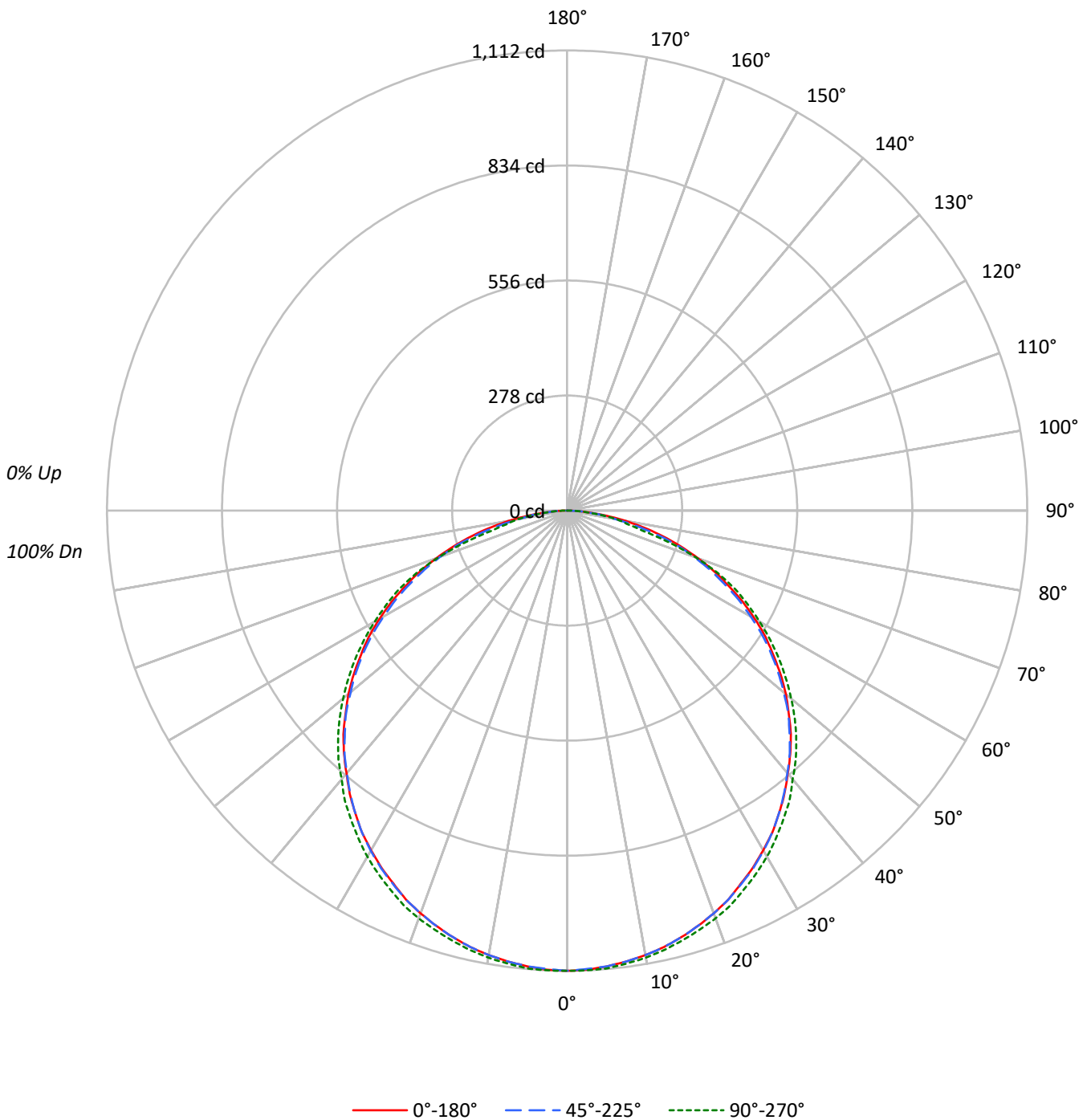
Input Watts (W): 28.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	98	94	97	94	91	93	91	88	90	88	86	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3918	3918	3918
5°	3909	3909	3927
10°	3901	3901	3925
15°	3892	3892	3922
20°	3883	3883	3932
25°	3864	3871	3928
30°	3854	3861	3929
35°	3839	3839	3918
40°	3815	3807	3899
45°	3810	3785	3901
50°	3781	3744	3872
55°	3737	3696	3839
60°	3689	3607	3783
65°	3589	3492	3728
70°	3459	3356	3407
75°	3258	3054	2602
80°	2867	2394	2495
85°	2082	2017	1948



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.2	3.2
10°-20°	301.9	9.2
20°-30°	460.9	14.0
30°-40°	561.3	17.1
40°-50°	590.8	18.0
50°-60°	544.0	16.6
60°-70°	423.4	12.9
70°-80°	235.0	7.2
80°-90°	60.4	1.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	867.9	26.4
0°-40°	1429.3	43.5
0°-60°	2564.1	78.1
0°-90°	3282.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3282.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1112	1112	1112	1112	1112	
5°	1106	1106	1106	1109	1110	105
15°	1067	1067	1067	1072	1076	301
25°	994	996	996	1004	1011	459
35°	893	893	893	903	911	559
45°	765	760	760	771	783	589
55°	608	607	602	612	625	544
65°	431	426	419	432	447	427
75°	239	234	224	200	191	252
85°	52	48	50	48	48	65
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1112.1	1112.1	1112.1	1112.1	1112.1
2.5°	1110.5	1108.8	1108.8	1112.1	1112.1
5°	1105.5	1105.5	1105.5	1108.8	1110.5
7.5°	1098.8	1098.8	1098.8	1103.8	1103.8
10°	1090.5	1088.8	1090.5	1093.8	1097.2
12.5°	1080.5	1078.9	1080.5	1083.9	1087.2
15°	1067.2	1067.2	1067.2	1072.2	1075.5
17.5°	1052.3	1050.6	1052.3	1057.3	1062.2
20°	1035.7	1035.7	1035.7	1042.3	1048.9
22.5°	1017.4	1015.7	1017.4	1025.7	1032.3
25°	994.1	995.8	995.8	1004.1	1010.7
27.5°	972.5	970.8	974.1	980.8	989.1
30°	947.5	947.5	949.2	957.5	965.8
32.5°	922.6	920.9	922.6	930.9	939.2
35°	892.7	892.7	892.7	902.7	911.0
37.5°	862.8	861.1	861.1	871.1	882.7
40°	829.5	827.9	827.9	839.5	847.8
42.5°	797.9	796.3	796.3	806.2	817.9
45°	764.7	759.7	759.7	771.3	783.0
47.5°	726.5	723.1	724.8	734.8	746.4
50°	689.9	684.9	683.2	694.9	706.5
52.5°	650.0	648.3	643.3	653.3	666.6
55°	608.4	606.8	601.8	611.7	625.0
57.5°	568.5	563.5	558.6	566.9	581.8
60°	523.6	518.7	512.0	523.6	536.9
62.5°	478.8	472.1	467.1	477.1	492.1
65°	430.6	425.6	418.9	432.2	447.2
67.5°	385.7	380.7	372.4	384.0	394.0
70°	335.8	329.1	325.8	327.5	330.8
72.5°	287.6	284.3	279.3	266.0	262.7
75°	239.4	234.4	224.4	199.5	191.2
77.5°	191.2	187.8	169.6	148.0	148.0
80°	141.3	139.6	118.0	121.4	123.0
82.5°	96.4	93.1	86.4	84.8	84.8
85°	51.5	48.2	49.9	48.2	48.2
87.5°	19.9	19.9	21.6	19.9	19.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)